JAMES J. HAMMOND BUILDING

FITCHBURG STATE COLLEGE

UNDERGRADUATE CATALOGUE SUPPLEMENT 1976 - 1977

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FITCHBURG STATE COLLEGE

UNDERGRADUATE CATALOG SUPPLEMENT

1976 ★ ★ ★ 1977

FITCHBURG, MASSACHUSETTS 01420

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1474/77

FITCHBURG STATE COLLEGE
CALENDAR
1976 - 1977

FIRST SEMESTER

Sept. 6 Mon . . .	.Residence Halls Open for Student Teachers Only-4:00 p.m.
Sept. 7 Tues . . .	.College Opens - Including Residence Halls
Sept. 8 Wed . . .	.Classes Begin
Oct. 11 Mon . . .	.Columbus Day - No Classes
Oct. 13 Wed . . .	.Monday Class Schedule
Nov. 11 Thurs . .	.Veteran's Day - No Classes
Nov. 19 Fri . . .	.Last Day for Withdrawal from Class without Penalty
Nov. 24 Wed . . .	.Thanksgiving Recess Begins-Classes end at 3:00 p.m. Residence Halls Close
Nov. 28 Sun . . .	.Thanksgiving Recess Ends-Residence Halls re-open 4:00 p.m.
Dec. 13 Mon . . .	.Last Day of Classes
Dec. 14 Tues . . .	.Final Examinations-Sat., Dec. 18th is included
through	
Dec. 23 Thurs . .	.Residence Halls Close - Semester ends except for Student Teachers

SECOND SEMESTER

Jan. 9 Sun . . .	.Residence Halls Open for Student Teachers Only-4:00 p.m.
Jan. 14 Fri . . .	.Martin Luther King Day - No Classes
Jan. 16 Sun . . .	.Residence Halls Open - 4:00 p.m.
Jan. 17 Mon . . .	.Classes Begin
Feb. 21 Mon . . .	.Washington's Birthday - No Classes
Feb. 23 Wed . . .	.Monday Class Schedule
March 18 Fri . . .	.Spring Recess Begins - Residence Halls Close Except for Student Teachers
March 27 Sun . . .	.Residence Halls Re-open - 4:00 p.m.
March 28 Mon . . .	.Spring Recess Ends
April 7 Thurs . .	.Residence Halls Close
April 8 Fri . . .	.Good Friday - No Classes
April 10 Sun . . .	.Residence Halls Re-open - 4:00 p.m.
April 15 Fri . . .	.Residence Halls Close
April 18 Mon . . .	.Patriot's Day-No Classes; Residence Halls Open-4:00 p.m.
April 22 Fri . . .	.Last Day for Withdrawal from Classes without Penalty
May 13 Fri . . .	.Last Day of Classes
May 14 Sat . . .	.Final Examinations-Sat., May 21 is included
through	
May 24 Tues. . .	.Residence Halls Close - except for Student Teachers
June 5 Sun . . .	.Commencement

ADMINISTRATION

Vincent J. Mara, Ph. D.	President
Lawrence A. Quigley, Ph. D.	Executive Vice President
Francis J. Pilecki, Ed. D.	Academic Dean
Joseph A. Angelini, C.A.G.S.	Director of Admissions
Duane Armstrong, M. in Ed.	Director of Financial Aid
George J. Aziz, M. Ed.	Registrar
Patricia Barbaresi, Ed. D.	Acting Chairman, Early Childhood, Elementary and Secondary Education Department
William Barker, Ph.D.	Chairman, English Department
Thomas Battinelli, Ed. D.	Chairman, Physical Education Department
Carl Beauchamp, B. S.	Director of Data Processing
John J. Boursy, M.B.A.	Dean of Administration
Raymond E. Bryant, M.Ed.	Director of Career Planning and Placement
William Casey, M.A.,M.S.	Director of Library
Christine Cosgrove, Ph.D.	Acting Dean of Undergraduate Studies
Robert W. Clark, M.A.	Chairman, Mathematics Department
Thomas Coates, J.D.	Director of Personnel Relations
Richard F. Condon, Ed. M.	Principal, McKay Campus School
Harry Crowley, Ed. D.	Chairman, Behavioral Sciences Department
Lee DeNike, Ed. D.	Chairman, Instructional Media Department
Stanley Dick, Ph. D.	Chairman, Biology Department
Edward T. Donnelly, Ed. D.	Chairman, Industrial Arts Department
Joseph F.Durant, Ed. D.	Dean of Students
William H. Fitzsgibbon, M. S.	Associate Dean of Students
William J. Goldman, Ed. D.	Chairman, Special Education Department
Robert W. Greene, Ph. D.	Associate Registrar
Francis X. Guindon, Ed. D.	Director of Research, Planning and Development
Oscar Harrell, C.A.G.S.	Assistant Director of Admissions; Director, A.I.D.
Louise Keenan, Ed. D.	Associate Dean of Students
Norman C. Locke, M.Ed.	Director of Instructional Media
Robert R. Lee, Ed. D.	Director of Professional Experiences
John Mazeika, M.Ed.	Assistant Principal, McKay Campus School
Philip A. McMurray, M.Ed.	Director of Evening College
John A. McNaney, Ph. D.	Chairman, Chemistry Department
George Murphy, M.B.A.	Chairman, Business Administration
John F. Nash, Ed. D.	Dean of Graduate and Continuing Education
Donald H. Norton, Ph.D.	Chairman, Social Sciences Department
Reginald F. O'Neill, Ph. D.	Chairman, Humanities Department
Lawrence A. Ovian, Ed. D.	Director of Field Services
Wilfred Paro, M.A.	Assistant Director of Admissions
Raoul Rebillard, M.S.	Director of Campus Center
Michael Rivard, B.S.	Director of Fiscal Affairs
John Strobeen, B.S.	Superintendent of Buildings and Grounds
Esmail Valanejad, Ph.D.	Chairman, Physics Department
Eleanor Voorhies, M.N.,M.A.	Chairman, Nursing Department

✓ ADD

ROBERT D. ALLEN	B.S. State University at Oswego, N.Y.; M.S. Bowling Green University, Ohio. Instructor, Industrial Arts.1975
JAMES ANDREWS	B.S. Ed., M.Ed., Fitchburg State College. Instructor. McKay Campus School. 1975
MICHELLE A. BRADY	B.S.N. Boston University; M.S.N., Boston University. Instructor, Nursing. 1976
OSCAR HARRELL	B.A. Virginia Union University; M.A., Assumption College; C.A.G.S., Assumption College. 1974
DIANA KOLBEN	B.M. Oberlin Conservatory, Ohio; M.M. Boston University. Instructor, McKay Campus School. 1975
STANLEY KRANE	B.S. City College of N.Y.; M.S. Michigan State University; Ph.D. California Institute of Technology. Assistant Professor, Biology. 1975
VINCENT J. MARA	B.S. Ed., Worcester State College; Ph. D.University of Connecticut, President. 1975
MARILYN A. RICHARD	B.S.N. University of Maine; M.S.N., Boston University. Assistant Professor. 1976
JAMES J. SHEEHAN	B.S., Ed.M. Boston University. Instructor, Physical Education. 1973
EILEEN L. SJOBERG	B.S. Fitchburg State College; M.S.N., University of Massachusetts. Assistant Professor of Nursing. 1976
DIANE SUSKIND	B.S. Elem. Ed. State University of N.Y. at Brockport; M.A. Syracuse University. Instructor, Early Childhood Education. 1974

✓ DELETE

JOHN ANDREWS
DAVID BESNIA
JANET BLACKWELL
CARYL BRENSINGER
MARY A. HALEY
JAMES J. HAMMOND

BERNICE LOTHROP
MARY JANET MCCARTHY
BARRY NEEDLEMAN
ROBERT C. PIERLE
LAWRENCE RISMAN
DAVID J. ROUSSEAU
MICHAEL SIEGEL

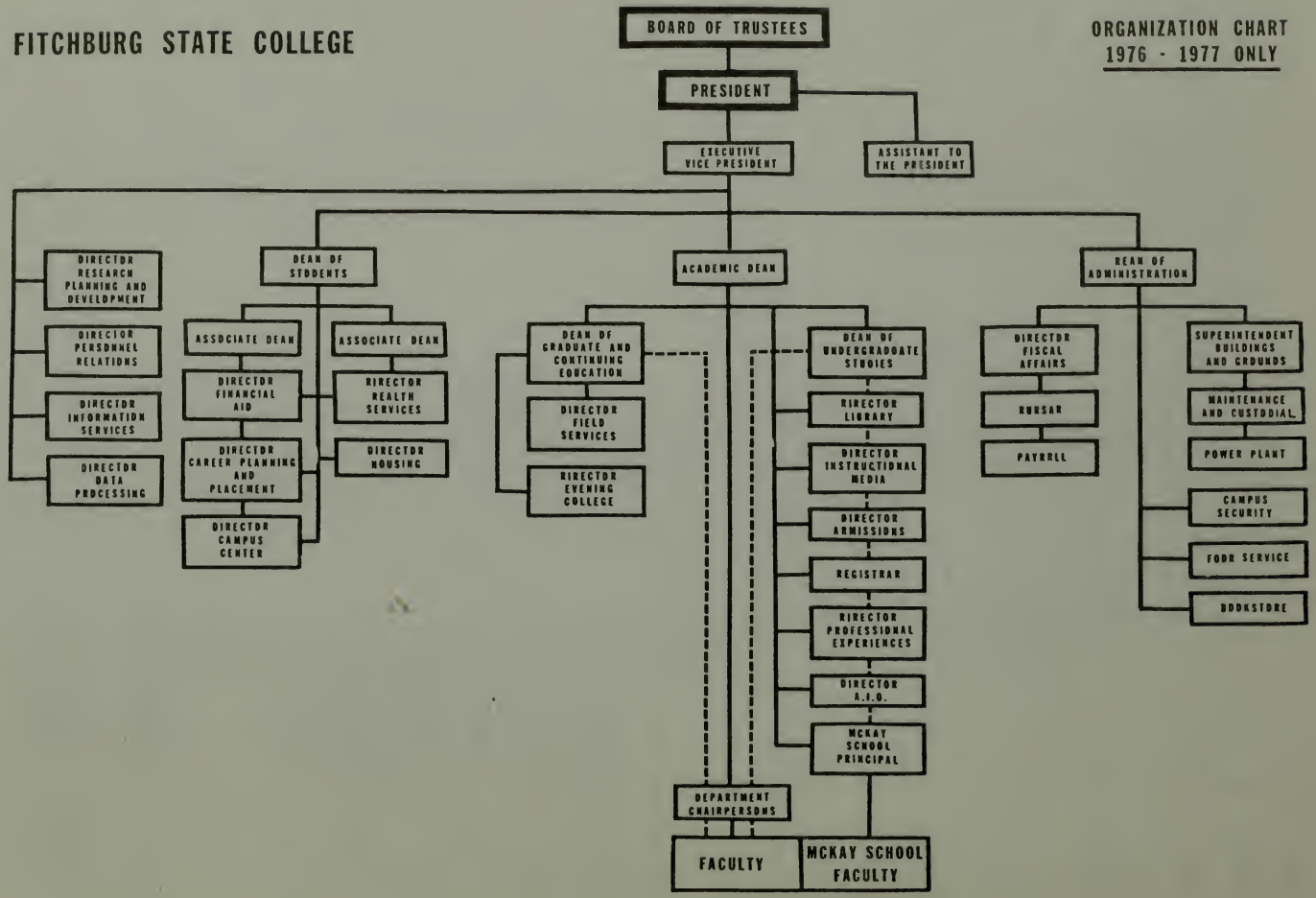
PROMOTIONS	TO
Bonita Adams	Asst. Professor
Rina Folman	Asst. Professor
Donna Friedman	Asst. Professor
Sophia Harrell	Asst. Professor
Judith Schifferle	Asst. Professor
James Sheehan	Asst. Professor
Charles Panageotes	Asst. Professor
Albert Pierce	Asst. Professor
Elmer Arsenault	Assoc. Professor
Judith Budz	Assoc..Professor
Paul Girling	Assoc. Professor
William Keough	Assoc. Professor
Pasquale Micciche	Assoc. Professor
Harry Semerjian	Assoc. Professor
Richard Spencer	Assoc. Professor
Everett Israel	Professor
Muriel McAvoy	Professor
Michael Vignale	Professor

✓ ADJUNCT PROFESSORS

JOHN B. CAMPBELL	Adjunct Professor, Computer Science
MCMANUS, EUGENE J. JR.	Adjunct Professor, Business Administration
MAHONEY, JOHN E.	Adjunct Professor, Business Administration
METRANO, RAYMOND J. JR.	Adjunct Professor, Computer Science

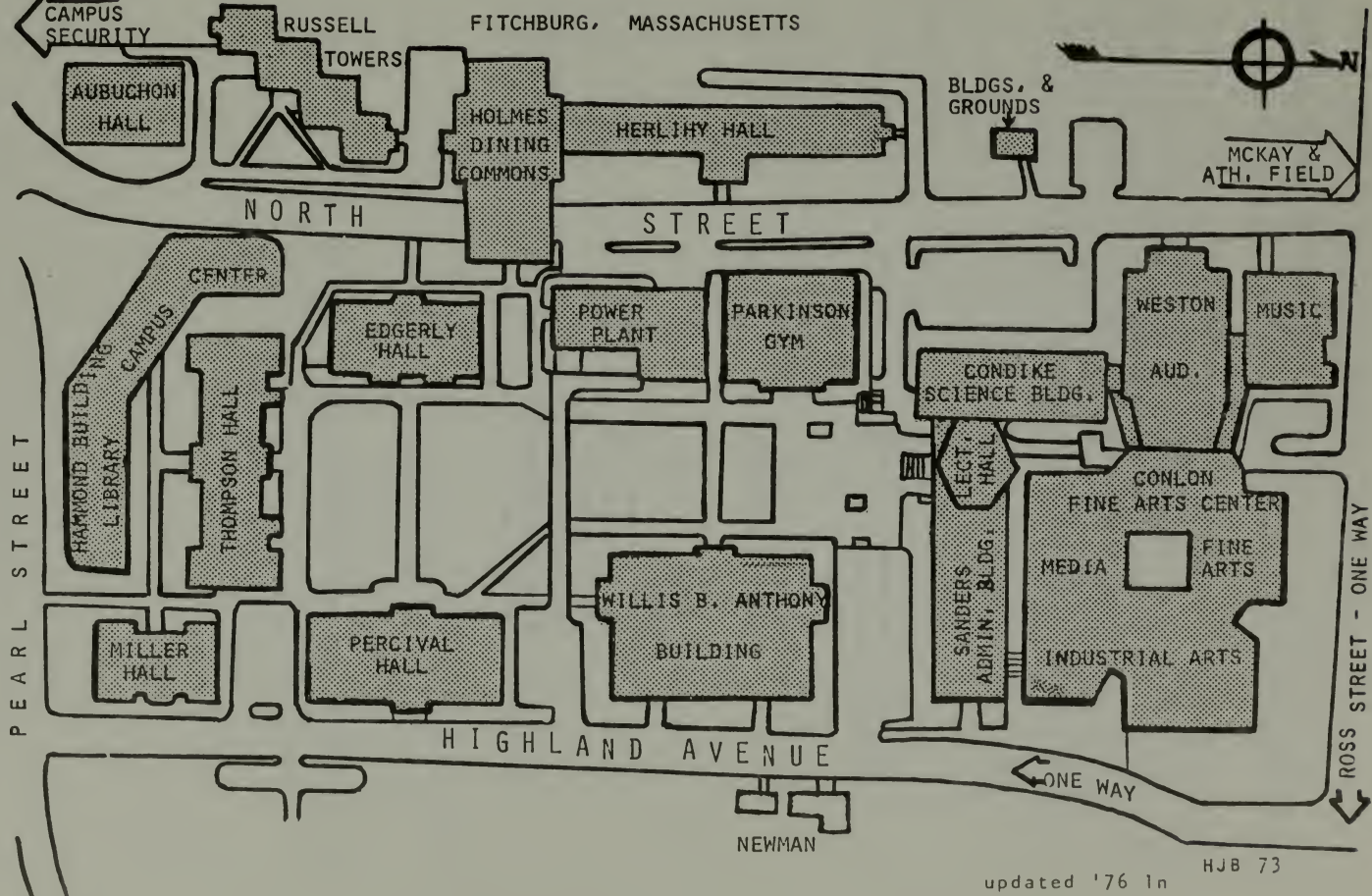
FITCHBURG STATE COLLEGE

ORGANIZATION CHART
1976 - 1977 ONLY



FITCHBURG STATE COLLEGE

FITCHBURG, MASSACHUSETTS



HJB 73

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Confidentiality of Student Records

This is a summary of the Massachusetts State College System Guidelines Pertaining to Confidentiality of Student Records. Copies of the Guidelines are available for study at the library and at offices where records are kept.

Definitions:

Education records include "records, files, documents and other materials which . . . contain information directly related to a student" and "are maintained by an educational agency or institution." The following are excluded: personal files of faculty and administrators, law enforcement records, medical, psychiatric or psychological records and employment records of non-student personnel.

Directory Information "includes a student's name, address, telephone listing, date and place of birth, school or college, major field of study, participation in officially recognized activities and sports, weight and height of members of athletic teams, dates of attendance, degrees and awards received and the most recent previous educational agency or institution attended by the student."

The College will release directory information upon request unless the student involved requests in writing that it be suppressed. Such request must be made annually no later than October 1st or, for second semester entrants, February 1st.

Access Rights of Students:

Students may access records other than those pertaining to parental financial information and those containing confidential evaluations and recommendations written prior to January 1, 1975. A student may waive his/her right to access to materials submitted after that date but must not be required to do so. When a waiver has been employed, the student may, upon request, be notified of the names of those who have submitted evaluations or recommendations.

Access Rights of Others:

No one shall have access to education records without written consent by the student except for the following:

1. Faculty and staff who have a legitimate interest.
2. Federal auditors who require information by state and federal statute.
3. Financial aid personnel processing applications.
4. Research agencies which must use data in such a way that individuals cannot be identified and who will destroy the information when it is no longer needed.

5. Accrediting agencies.
6. Parents of dependent students under certain conditions.
7. Others in emergency situations involving health or safety.

How to Access a Record:

A student who wishes to examine a record must obtain a request form from the Dean of Students' Office upon presentation of a proper identification card. The request form must be completed, and a photostat together with the identification card presented to the office where the record is kept. Only the permanent card (transcript) is considered as a "permanent educational record." Other records may be destroyed in accordance with established schedules. Students may challenge contents of a record. The keeper of said record will discuss the challenge and indicate steps available to the student. The correctness of an assigned grade is not open to challenge but the accuracy of its recording is.

Types and Location of Records:

The following listing denotes types of records and the record keeping office in the daytime session of the College. Students in other sessions of the College should consult with the offices of those Divisions to determine their record-keeping locations.

Type of Record	Office of Record
Academic (Transcripts, etc.)	Registrar
Admissions	Director of Admissions
Athletics	Director of Athletics
Disciplinary	Student Personnel Services
Financial	Business Office
Financial Aid	Director of Financial Aid
Placement	Director of Placement
Scholarships	Associate Deans of Students
Veterans	Coordinator of Veterans Affairs

Since physical location of offices is subject to change, the student should consult the directory at the Highland Avenue entrance to the Administration Building.

Questions related to the material above should be referred to the Student Personnel Services Office. Again, it should be noted that the above is a digest and that the complete guidelines are available for study at the offices listed above and in the Library.

P. 23, footnote

CHANGE footnote at bottom of page from:

* A candidate who scores 500 or better on the English Composition Exam will be required to write and satisfactorily complete an essay administered by the English Department of the College.

TO:

* A candidate who takes the English Composition Examination will be required to write and satisfactorily complete an essay examination constructed and scored by the Fitchburg State College English Department. This examination will be administered through the Career Planning and Placement Center with other CLEP examinations.

P. 24

CHANGE "English Composition (with essay)" — 5th line from bottom in Subject Examinations listing

TO: "English Composition***"

- - - - -

ADD, at bottom of page:

*** A candidate who takes the English Composition Examination will be required to write and satisfactorily complete an essay examination constructed and scored by the Fitchburg State College English Department. This examination will be administered through the Career Planning and Placement Center with other CLEP Examinations.

P. 25

INSERT (After end of CLEP information, and before "Exemption from English Composition"):

Advanced Placement Examination

Students who score 4 or 5 on the Advanced Placement Examination will received advanced placement in the area tested but no credit will be awarded.

- - - - - - - - - - -

OMIT (Under "Exemption from English Composition," last sentence):

Students who have scores of 3, 4, or 5 on the Advanced Placement Exam will receive credit for English Composition I and II.

INSERT (in between "Exemption from English Composition" and "Transfer Students"):

Internal Transfer

Those accepted as undeclared majors as well as those accepted for a given major may be considered for internal transfer into a different major only when they qualify on a competitive basis for existing vacancies.

P. 26 INSERT, after two lines at top of page (before "Registered Nurses from.)

All transfer students are required to take 12 semester hours from at least 3 different professors within their respective department PRIOR to student teaching.

P. 26 - 27

OMIT STUDENT COSTS

INSERT the revised STUDENT COSTS as follows:

STUDENT COSTS

The following list includes the essential expenses (exclusive of such items as clothing, travel, and entertainment) for which a student would budget for an academic year:

Application Fee (not refundable nor applicable to tuition) $10
Tuition . . . . . $500 ($250 per semester)
Tuition . . . . . $1200 ($600 per semester)
Registration Fee (not refundable but applicable to tuition). $50
Student Activity Fee . . . . . $30($15 per semester)
Athletic Fee . . . . . $35($17.50 per semester)
Books, Supplies . . . . . Approximately $150
Library Fee . . . . . $10 ($5 per semester)
Placement Fee (seniors only) . . . . . 2nd semester $5
Resident Hall Deposit (not refundable but applicable to room charge). . . $50
Room and Board . . . . . (See Item 5)
Educational Services Fee . . . . . $15($7.50 per semester)
Campus Center Fee . . . . . $30 ($15 per semester)
Residence Hall Damage Deposit $50
Health Fee . . . . . $15 ($7.50 per semester)
Insurance (optional). . . . . Approximately $30

All fees are subject to adjustment by the Board of Trustees of State Colleges in keeping with changing costs of operations.

All bills must be paid with either cashiers checks, money orders, bank checks or travelers check. No personal checks will be allowed.

1. Application Fee
   $10 (not refundable nor applicable to tuition).
2. Tuition
   A. For residents of Massachusetts: $500 per year—payable in two installments of $250 at the beginning of each semester of 1976-1977.
   B. For non-residents: $1200 per year--payable in two installments of $600 at the beginning of each semester.
3. Registration Fee
   A Registration Fee of $50 is required of all new students upon acceptance. It is not refundable, but is credited against the first semester tuition for students enrolling in the College.
4. Student Activity Fee and Athletic Fee
   All students are required to pay a Student Activity Fee of $30.00 per year ($15.00 per semester) and an Athletic Fee of $35.00 per year ($17.50 per semester). These non-refundable charges support certain extracurricular and organizational programs on campus.
5. Room and Board for Resident Students
   The cost of board is $480 per academic year - - 5-day plan; $512 per academic year,7-day plan; but the room cost depends upon the hall to which a student is assigned. The maximum charge for room and board at present is $1,292 annually and is payable in equal installments at the beginning of each semester.

P. 26

INSERT as second paragraph.

Transfer applicants who are not already registered nurses, are not accepted at the Junior year level or above.

OMIT Second paragraph under HOUSING.

INSERT as second paragraph under HOUSING.

Once a student signs an Occupancy Agreement, he/she is responsible for Residence Hall charges for the academic year unless conditions specified in the Agreement are met.

P. 28

OMIT #7 (Under Student Costs)

INSERT #7. All costs listed above reflect Trustee Policy as of June 1, 1976. Future Trustee actions can result in increased costs.

P. 29 HEALTH CENTER

OMIT: Svend W. Brunn, M.D. College Physician

INSERT: Barbara J. Chaffee, M.D., Lucy A. Sandler, M.D., College Physicians

OMIT: Quintino Rollo, M.D., Director

P. 30

CHANGE: (Under "Screening Policies for Student Teaching")

5. Each candidate should possess a 2.0 cumulative index and a 2.0 index in his major field, as each department defines "major field". No incomplete in any course is allowed. No probational status is allowed. No unresolved failure is permitted in a candidate's major field.

TO:

5. The Teacher Education Council requires that each candidate for student teaching possess a 2.0 cumulative index and a 2.5 index in his major field, as each department defines "major field." No incomplete in any course is allowed. No probational status is allowed. No unresolved failure is permitted in a candidate's major field.

- - - - - -

ADD: (Under "Screening Policies for Student Teaching")

7. All transfer students are required to take 12 semester hours from at least 3 different professors within their respective department PRIOR to student teaching.

P. 33

ADD: (Under Social and Behavioral Sciences Group of Disciplines listing)

Introduction to Human Services

ART

P. 55 - ADD

AR 13 Contemporary Art 3-3
The course will explore the work and ideas of prominent contemporary artists, from the 1950's to the present, in the fields of sculpture, painting, drawing, design, film, etc.

AR 15 Figure Drawing 3-6
A study of the form and structure of the human figure which includes drawing from the model.

AR 80 Museum Internship 3-6
Offered jointly with the Fitchburg Art Museum. Emphasis on museum management and particularly the arrangement of exhibitions. Only by permission of advising art faculty.

BEHAVIORAL SCIENCES

P. 52 - ADD
(Under Phase I, "Quantitative Methods"):
I (to make course title read "Quantitative Methods I")

CHANGE:
(Under Phase II, Quantitative) "Psychological Statistics"
TO: Quantitative Methods II

- - - - - - -

DELETE (Under Phase I, last item):
Freshman Orientation seminar 1

P. 56
DELETE:
PY 13 Introduction to Quantitative Methods

P. 57
CHANGE course name, PY 40 from: Psychological Statistics
TO: Quantitative Methods II: Psychological Statistics

P. 58 HUMAN SERVICES
ADD new courses HS 15, HS 20, HS 30

HS 15 Community Resources 3-3
This course will acquaint students with the variety of public (federal, state, and local) and private voluntary non-profit agencies which provide services. Students will learn what services are provided, how to obtain services, how to make referral to these agencies and how the agencies are operated (includding staffing, funding and administrative aspects of the agencies). Students will also be able to make more appropriate Field Work plans by knowing of the agencies in advance of Field Work. Prerequisite: HS 10.

P. 58

ADD

HS 20 Delivery of Human Services 3-3

An overview of the needs, problems and approaches to providing Human Services to people in need of these services. Goals, planning, establishing priorities, lay leadership (Boards of Directors), administration, policv development, budgeting, program evaluation, staffing and financing are some of the topics which will be explored. Prerequisite: HS 10.

HS 30 Introduction to Social Work 3-3

This course deals with Social Work, one of the most basic and central of the Human Services professions. The course will deal with the history of the field, the current issues and problems facing the profession, the specialties (case work, group work, community organization), the settings in which social workers work, the role and functions they carry out, and career opportunities (some of which will require further graduate study). Prerequisite: HS 10.

REVISE course description for HS 75 to read:

HS 75 Fundamentals of Interviewing and Report Writing 3-3

This course will provide students with basic skills needed in the Human Services, primarily interviewing and report writing. Prerequisites: HS 10, PY 35, co-requisite HS 76, and permission of the instructor.

ADD new course HS 76:

HS 76 Methods of Case Reporting and Analysis 3-3

Exposure to technical, practical, and theoretical aspects of writing and analyzing case reports. A supervised practicum (3 to 4 hours per week) is required. Prerequisites: HS 10, PY 35, EN 12, and requisite HS 75.

CHANGE HS 80 and 81 hours per week from "12-25" to:

12-30

CHANGE HS 80 and 81 "Prerequisites" to:

Prerequisites: HS 10, PY 35, HS 75, HS 76, permission of instructor, and prior volunteer experience.

P. 54

ADD two asterisks beside "Intro. to Sociology" and add footnote with two asterisks at bottom of page:

** Intro to Sociology 3

** Prerequisite for all Sociology Courses.

P. 59

DELETE (first course listing under "Behavioral Sciences"):

B.S. 10	Orientation Seminar in Behavioral Sciences	1-1

DELETE

SO 72	Social Movements and Collective Behavior	3-3

ADD

SO 47	Social Research	3-3

The course proposes to develop an understanding and appreciation of the problems, methods, and practical uses of social research through experience.

BUSINESS ADMINISTRATION

BA 50 Production Management

Basic principles of production management related to the effective utilization of the factors of production in manufacturing and non-manufacturing activities for both intermittent and continuous systems. The study of production organizations, analytical models and methods, facilities design, and the design of control systems for production operations.

BA 54 Personnel Management

Principles and policies followed by management in recruitment, development direction and control of personnel.

BA 56 Business Fluctuations and Forecasting

Analysis of the operation of our enterprise system with emphasis on the factors responsible for economic instability; analysis of public and business policies which are necessary as a result of business fluctuations.

BA 60 Organizational Behavior and Theory

A general descriptive and analytical study of organizations from the behavioral science point of view. Problems of motivation, leadership, morale, social structure, group networks, communications, hierarchy and control in complex organizations. The interaction between technology and human behavior. Discussion of alternative theoretical models.

BA 62 Social and Political Environment of Business

Study of the evolution of American business in the context of its changing political and social environment. Analysis of the origins of the American business creed, the concept of social responsibility of business, and the expanding role of the corporation.

BA 64 Business Policy and Strategy

An integrating course embracing all organic management functions. Cases are used as subjects for analysis and systematic decision making practice.

COMMUNICATIONS/MEDIA

LEVEL I.

CM10 Languages of Communication 3
The course will focus on four types of communication: symbolic alpha/numeric, non-verbal, and visual.

CM11 Communication Technology 3
This course will focus on the hardware of communication and the subsequent design of software.

CM 12 Messages 3
This course will focus on the design, conversion, interpretation and evaluation of messages.

CM 13 Communication Systems 3
This course will focus on the following systems: print, visual, auditory, tactile, olfactory and kinesthetic.

LEVEL II. A further delineation of the individual elements introduced in Level I. Courses in the four possible options designed for this level should be elected with the advice and approval of a member of the Communications/Media Department.

OPTION B: COMMUNICATION DESIGN

CM 24 Iconic Languages 2
This course will focus on the development of iconic messages as they pertain to verbal concepts and visual illusions.

CM 21 Visual Languages 2
This course will focus on the analysis and synthesis of those elements necessary for complete and efficient visual communication.

CM 25 Non-Verbal Languages 2
This course will focus on other languages of communication to include body language and sign language.

CM 26 Teaching/Learning Strategies 2
This course will focus on the various learning theories and teaching strategies which will facilitate the communication process.

LEVEL III. Selection of an area of specialization. Currently four are available.

OPTION B1 Television
The purpose of this option is to train specialists in the area of television. This option includes emphasis in educational, instructional, commercial and industrial applications.

Television (cont.) The courses include:
C M 40 - Television Production I
C M 41 - Television Production II
C M 42 - Commercial and Broadcasting Television
C M 43 - Instructional Television
C M 44 - Script Writing

OPTION B_2 Photography

The purpose of this option is to train specialists in the area of photography. This option includes emphasis in artistic, journalistic, medical, and commercial photography.

The courses include:
C M 50 - Basic Photography
C M 51 - Intermediate Photography
C M 52 - Aesthetics of Photography
C M 53 - Black/White and Color Processing
C M 54 - Macro/Micro Photography
C M 55 - Medical/Biological Photography
C M 56 - Offset And Photographic Reproductions In Graphics

OPTION B_3 Film

The purpose of this option is to train specialists in the area of film. The courses in this area are designed to meet a variety of film applications.

The courses include:
C M 60 - Exploring The Film Medium
C M 61 - Filmed Programs I (35mm)
C M 62 - Filmed Programs II (8mm)
C M 63 - Medical/Biological Film Production
C M 64 - Advanced Film Production

OPTION B_4 Graphics

The purpose of this option is to train specialists in the area of graphics.

The courses include:
C M 70 - Media Production I
C M 71 - Media Production II
I A 46 - Graphic Arts
I A 33 - Offset Printing
C M 72 - Aesthetic Graphics
C M 73 - Field Work in Graphics

LEVEL IV.

This level provides a culmination activity to the student's ares of specialization.

It involves the resolution of communications problems on and/or off campus.

C M 95 - Practicum

COMPUTER SCIENCE, Bachelor of Science
(120+ semester hrs. - 24 semester hours in Computer Science)

General Education (60 sh minimum)	
English Comp. I & II	3/3
Speech	3
Health & Fitness	3
State & Federal Const. Prof.	
Mathematics/Science	14 sh.
Calculus I & II	3/3
General Physics I & II	4/4
Social Sciences	15 sh.
Humanities	15 sh.
Electives	4 sh.
Computer Science	24 sh.
Intro to Computer I & II	3/3
Programming I, II	3/3
Comp. Org. & Hardware I, II	3/3
Systems Programming I, II	3/3
Mathematics	12 sh.
Calculus III	3
Linear Algebra	3
Electives from Probability & Statistics, Differential Equations, Combinatorics, Numerical Analysis	6
Physics	12 sh.
General Physics III	4
Electronics I, II	4/4
Free Electives	12 sh.

COMPUTER SCIENCE

P. 64

REVISE course descriptions on CS 15 and CS 16 to:

CS 15 Introduction to Computers I 3-3
Provides a broad foundation for the study of computers. Topics include: number system theory, a brief introduction to computer hardware design, machine, assembly and higher-level language.

CS 16 Introduction to Computers II 3-3
Provides a broad foundation for the study of date structures, their storage and selected applications. Prerequisite: CS 15.

P. 65

REVISE course descriptions on CS 25, CS 26, and CS 27 to:

CS 25 Programming I (FORTRAN) 3-3
Provides an in-depth study of the FORTRAN programming language with some use of assembly language subroutines. Prerequisites: CS16

CS 26 Programming II (COBOL-A) 3-3
Provides an introduction to and practice with the COBOL programming language. Students who seek an in-depth study of this language should enroll in the CS-27, CS-28 course sequence. Prerequisite: CS 16.

CS 27 Programming III (COBOL-l) 3-3
Provides an in-depth foundation for the study of the COBOL programming language with attention to language formalities and syntax. Prerequisite: CS 16.

ADD listing of new courses CS 28, CS 37, and CS 38:

CS 28 Programming IV (COBOL-2) 3-3
A continuation of CS 27 with added emphasis on applications and programming procedures. Prerequisite: CS 27.

CS 37 Computer Hardware and Organization I 3-3
A study of digital circuits, including combinational and sequential circuits, Boolean algebra and Karnaugh mapping, multiplying, registers including parallel to serial, ASCII coding, teletype interfacing.

CS 38 Computer Hardware and Organization II 3-3

Computer organization using the PDP 8 as typical mini-computer, micro instructions, machine language programs, PAL III assembly language; micro-processors.

EARLY CHILDHOOD, ELEMENTARY AND SECONDARY EDUCATION

P. 34

ADD

English Specialization

Students in the Elementary Curriculum who wish to specialize in English may do so by electing 18 semester hours in English, 6 hours of which should be taken from the following courses: English Literature I, English Literature II, American Literature I, and American Literature II.

P. 66

ADD

ED 25 Pre-Kindergarten Practicum 4-5

This course is divided into two segments. Two-hour weekly class meetings give information concerning creative play and learning techniques for pre kindergarten. During the additional three hours per week the course will provide a community service to children in the Fitchburg-Leominster area.

P. 67

ADD

ED 80 Integrated Creative Arts Teacher Education Program 15sh

This is a full-semester experience which includes five weeks of classroom instruction and training (creative work in visual arts, language arts, movement, music, and integrating art forms). Subsequent to the initial period, students will be placed in field stations for classroom experiences for the remainder of the semester. These activities will involve assisting teacher-specialists in one or more of the art form areas, and the development and implementation of programs for the specific classroom and its pupils so as to foster the pupils' personal expression through creation in the arts.

A weekly seminar on Wednesday afternoons from 1:00 to 3:00 will be held at the College for the purposes of workshop experiences and problem solving. Students are expected to be present in the schools on a full-time basis ordinarily throughout the semester. They will be visited and evaluated regularly by College faculty as well as by cooperating teacher-specialists in the schools.

ECONOMICS

P. 66

REVISE

EC 15 Economic Development 3-3

An examination of the problems of growth with particular reference to less developed countries; topics of discussion include population, income growth, foreign investment and aid, allocation of resources, and the role of government. Investigation through case studies is emphasized.

ENGLISH

P. 42

Under degree requirements for English, Bachelor of Arts, "English Required," ADD:

English Literature I

At bottom of page, under "English Departmental Honors," REVISE to read:

Honors in English are awarded to English majors with an overall grade point of 3.0 and a grade point in English of 3.5.

P. 69

REVISE course description for EN 52:

EN 52 Decadence and Transition 3-3
The Wilde 90's, Edwardian exuberance, and World War I collated with modern trends in poetry, prose, and drama.

ADD new course description for EN 66:

EN 66 Telling the Tale 3-3
English and American novels told by liars, children, gossips, novelists writing about themselves, uncaring and omniscient narrators. How point of view and value interact in fiction.

P. 70

DELETE course description for EN 93.

GEOGRAPHY

P. 71

ADD

GE 46 Problems in Environmental Geoscience 3-3
Through carefully coordinated readings and laboratory exercises in which students will work with original data from selected case studies, the following geologic problems will be investigated: earthquakes, landslides, land subsidence, flooding, groundwater overdraft and contamination, mineral fuels, solid waste disposal, planning the physical environment, and planning for the future. Students will be encouraged to conduct independent investigations of problems of interest to them. Prerequisite: For geography and environmental science majors with a minimum of 3 sh in geology and 3 sh in one of the following--physics physical science, earth science, or chemistry.

HISTORY

P. 44 REVISE

History, Bachelor of Science in Education, Secondary

History	33 sh
HI 10 & 12 (General Education)	3/3
HI 21 & 22	3/3
One course from HI 16, 17, 56, 57, 63, 64	3
One elective from Eur. History	3
One elective from U.S.History	3
HI 80	3

An additional 9 sh of History or courses related to History (political science, economics, geography, history of literature, etc.)

P. 44 REVISE

History, Bachelor of Arts or Science
(120 + semester hours -- 30 semester hours in History)

History	30 sh
HI 10 & 12 (General Education)	3/3
HI 21 & 22	3/3
One course from HI 16, 17, 56, 56, 63, 64	3
One elective in Eur. History	3
One elective in U.S.History	3
HI 80	3

An additional 6 sh of History electives.

MINOR 15 sh

15 sh in one subject. Candidates for the B.A. may choose their minor from either the Humanities or the Social Sciences. Candidates for the B.S. may choose their minor from either the Social or Behavioral Sciences.

P. 74 ADD

HI 47 Film as History 3-4

An analysis of the issues raised in the use of film as historical evidence. Journalistic and historical accounts of events are compared and contrasted with film treatments, particularly feature films and documentaries.

P. 74 ADD

HI 52 The Age of Revolution 3-3
Major developments in European life and thought in the age of the French, American, and Industrial Revolutions, 1760-1848. The meaning and applicability of the term "revolution" will be examined, and there will be a series of case studies of topics such as art and politics, romanticism, and the religious revival in England. Extensive use is made of audio-visual materials.

DELETE HI 53 Nineteenth-Century Europe

P. 75 REVISE

HI 88 Special Methods in Teaching of History 3-3
Special techniques for the teaching of history and their relationship to the principles of general methods. Prerequisite: IM 24. Offered each year in the fall semester.

HUMANITIES
Foreign Languages

P. 76 ADD

GR 36 Modern German Literature in Translation 3-3
The varied creativity of German writers of fictions, drama poetry, and criticism of the 20th century. The course will be conducted in English.

GR 37 Modern German Culture: "The Road To Hitler" (in English) 3-3
An introduction to modern German literature, art, history, music, and film with an emphasis on Expressionism. The course will focus on pre-Hitler Germany and on the dynamics of what led Germany to embrace Nazism.

P. 77 ADD

RU 36 Russian Literature in English Translation 3-3
Seminar on specific topics (genres, periods, authors eg. Dostoevski & Tolstoy) in Russian and Soviet Literature.

RU 37 Russian Culture and Soviet Life (in English) 3-3
An introduction to Russian geography, art and culture as it is reflected in soviet life and institutions.

SP 41 Practical Spanish for the Human Services Professional II 3-3
A continuation of SP 40.

MUSIC

P. 85

INSERT

MU 33 Chamber Music 3-3

Study of music for small ensemble.

MU 36 Baroque and Classical Music

Monteverdi to Beethoven. Opera, oratorio, Passion, Cantata, sonata forms, dance forms, shifting aesthetic views.

MU 37 Romantic Music

The 19th century as reflected in its music. Music drama, nationalism.

MU 47 Compositional Techniques

Working with small musical forms. Traditions devices like sequence, ostinato, motivic development. Freer forms.

MU 48 Musical Production

Workshop approach to producing and rehearsing opera, operetta musical comedy.

NURSING

P. 35

INSERT

Bachelor of Science Degree in Nursing

This supplement contains the new Baccalaureate Nursing Curriculum effective as of September, 1975. Please refer to the 1975-76 catalog for all other general information pertaining to the Nursing program.

Purpose

The purpose of the Fitchburg State College Nursing Program, derived from its philosophy and conceptual framework, is to prepare a professional nurse practitioner who assumes responsibility for planning and providing health care to individuals, groups, and communities in collaboration with other health professionals. He/she is capable of making independent nursing judgments and is accountable for his/her actions in providing primary and secondary nursing care.

Objectives

Upon completion of the program, the graduate:

1. Demonstrates the ability to think critically.
2. Respects the uniqueness, totality, and right to freedom of choice of each individual.
3. Detects and interprets deviations from established health norms and takes appropriate action.
4. Utilizes the nursing process, based on theoretical foundations, in the diagnosis and treatment of the nursing component of health problems.
5. Demonstrates therapeutic use of self in relationships with others.
6. Provides to others knowledge needed to facilitate decisions regarding health.
7. Utilizes knowledge of the research process to critically evaluate and implement research findings in the improvement of nursing care.
8. Utilizes leadership skills in anticipating, recognizing, and implementing change.
9. Collaborates with other disciplines in the designing and delivery of health care systems.
10. Assumes responsibility for continuous personal and professional growth through formal and informal avenues.
11. Demonstrates commitment to citizenship responsibilities via active involvement in health and social issues.

NURSING CURRICULUM PLAN

FRESHMAN YEAR

	Anatomy & Physiology	3		Anatomy & Physiology	3
	Chemistry I	3		Chemistry II	3
*	General Psychology	3	*	Intro. to Sociology	3
	English Composition	3		English Composition II	3
	Elective	3	*	A/V Equip. Operation	1
				Elective	3
		15			16

SOPHOMORE YEAR

	The Nurse: Concept & Practice I	6		The Nurse: Concept & Practice II	6
	Health Care in America	2		Microbiology	3
*	Human Growth & Development	3		Electives	6
*	Applied Statistics	3			
	Elective	3			
		17			15

JUNIOR YEAR

	Nursing Intervention: Concept & Practice I	12		Nursing Intervention: Concept & Practice II	12
	Electives	6	**	Speech	3
				Elective	3
		18			18

SENIOR YEAR

	Nursing: Concept & Practice in the Community	10		Nursing: Selective Practicum	12
	Professional Issues & Trends	2			
	Elective	3			
		15			12

* May be taken either semester

** May be taken any semester of any year

P. 48

REVISE - - New Copy

Bachelor of Science in Nursing

(123 semester hours - - 63 semester hours in Nursing)

GENERAL EDUCATION (60 sh minimum)	
English Composition I & II	3/3
Speech	3
State & Federal Const. Prof.	
Math/Science	12-16 sh
Anatomy & Physiology I & II	3/3
General Chemistry I & II	3/3
Survey of Micro-organisms	3
Social Sciences	15 sh
General Psychology	3
Introduction to Sociology	3
Human Growth & Development	3
Humanities	15 sh
Electives (from Gen. Ed. Area)	6 sh
Applied Statistics	3

NURSING *	63 sh
A/V Equipment Operation	1
Health Care in America	2
The Nurse: Concept & Practice I & II	6/6
Nursing Intervention: Concept & Practice I & II	12/12
Nursing: Concept & Practice in the Community	10
Nursing: Selective Practicum	12
Professional Issue & Trends	2

* Students are responsible for providing their own transportation for clinical practice.

NOTE: As of September, 1975, students will be required to have the same quality point ratio in nursing courses at the end of each semester as in other courses, in order to progress.

P. 26

INSERT

Admission requirements for Registered Nurses: Applicants must meet the regular college requirements for admission which include the following: application form which should be submitted by February 1 for consideration for fall entrance official transcripts from high school and diploma or associate degree program; and official transcripts for courses taken in other colleges and universities.

Additional nursing requirements for Registered Nurses:

1. Registered Nurses must take the Nursing Competency Examinations prior to being considered for acceptance. These examinations are given twice a year, in November and March.

2. Registered Nurses must register for exams by October 20 for the November testing dates and February 20 for March testing dates. Packets containing applications for examinations, and course outlines and bibliographies may be obtained from the Nursing Department.

3. All R.N.'s should have an interview with a faculty member of the Nursing Department prior to acceptance.

P. 82

INSERT new course description:

IM 11 Audio/Visual Equipment Operation 1-1

This course, primarily autotutorial, will enable students to operate ten to twelve pieces of standard and specialized audio/visual equipment according to demonstrated standards. Instruction and evaluation will take place in an instructional media setting.

P. 86

ADD

NS 27 The Nurse: Concept and Practice I 6-8

Theoretical and methodological concepts provide the framework for assisting the student to develop as a person and a learner, and to prepare him/her to assume the role and responsibilities of professional nursing. Laboratory experiences are provided for acquisition of skills. Prerequisities: Anatomy & Physiology I & II, Gen. Chem. I & II, Gen. Psych., Intro to Soc., and Eng. Comp. I & II.

NS 28 The Nurse: Concept and Practice I & II 6-8

The concepts learned in NS 27 are applied to develop beginning skills in the health assessment of well clients in their own environment. Normal nutrition and the use and misuse of pharmacological agents are included. Prerequisite: NS 27.

NS 29 Health Care in America 2-2

This interdisciplinary course, shared by faculty from History, Political Science, Special Education, and Nursing, provides students with a frame of reference relative to the contemporary Health Care System of which they will be a part. Areas to be explored will include: some historical development; current system of health care; financial, legal and political aspects; and Manpower, including nursing.

P. 86

ADD

NS 37 Nursing Intervention: Concept & Practice I 12-20

The totality of man as a bio-psycho-social being is emphasized. The frame of reference is man's internal environment. Concepts directed toward stabilizing this environment are discussed. Concepts and theories of nursing and health are discussed, broadened, and increased in depth. Through the selection of appropriate data and the process of critical thinking, the student will select and implement nursing interventions for selected clients. Clinical experiences will be planned in a variety of settings.

NS 38 Nursing Intervention: Concept & Practice II 12-20

Specific needs/problems resulting from the creation, transportation, kinetics, and potentials of energy as they relate to man and his being will be discussed. Through clinical experience and group conferences, the student develops increased skill in data collection, communication, physical and psychological assessment. The students have the opportunity to expand their concept of nursing through application and integration of selected theories. Clinical experiences will be planned in a variety of settings. Prerequisite: NS37

NS 42 Professional Issues and Trends 2-2

This course provides an opportunity for senior nursing students to: identify, explore, and discuss some of the critical issues and trends affecting nursing today; consider rights and responsibilities relative to professional organization and practice; and consider approaches to and opportunities for employment after graduation.

P. 87

ADD

NS 47 Nursing: Concept and Practice in the Community 10-18

This course is concerned with the health of families, groups, and the community. Health problems and programs on the national and international level are also considered. Major emphasis is on providing primary nursing care for the client-group and fostering a therapeutic environment for the maintenance and promotion of health and the prevention of disease.

P. 87

ADD

NS 48 Nursing: Selective Practicum 12-20 to 30

This course provides students with the opportunity to explore in depth particular areas of interest. The purpose of the experience is to encourage the synthesis of all previous learnings. The concept of critical thinking, leadership skills, communication skills, primary care, and research underlie the course of study.

The student is required to select a variety of guided clinical experiences during the semester.

P. 78 PHILOSOPHY

ADD Man and Nature

PL 48 Man and Nature 3-3

Using the film series The Ascents of Man, by J. Bronowski, this course will investigate key periods in human thought during which intellectual advances altered the relationship between man and the natural world.

P. 88, 89 PHYSICS

CHANGE

PH 13 General Physics I 4-5

Mechanics: Straight line motion, circular motion, Kepler's law of Planetary motion, Universal gravitation, work, energy, power, conservation of energy and momentum, simple harmonic motion. Hydrostatics and hydrodynamics: Archemides' principle, Bernoulli's equation, Viscosity, Stoke's law, Reynolds number.

PH 14 General Physics II 4-5

Electricity and Magnetism: Coulamb's law, electric field, electric potential, capacitance, electric circuits, magnetic field, magnetic forces on a current-carrying conductor, magnetic field of a current, induced e.m.f., magnetic properties of matter. Heat and Thermodynamics: heat and heat measurements, transfer of heat, thermal properties of matter, the laws of thermodynamics, kinetic theory of gases. Prerequisite: PH 13.

PH 15 General Physics III 4-5

Wave motion: waves, vibrating bodies, electromagnetic waves. Geometrical Optics: Laws of reflection and refraction, mirrors, lenses, optical instruments, eye and its optical defects and their correction, illumination and color. Physical Optics: interference and diffraction, polarization. Atomic and Nuclear Physics: atomic spectra, the Bohr atom, Compton effects, X-rays, radiation hazards.
Prerequisite: PH 14.

Pp.88, 89

CHANGE

PH 21 Applied Mathematics I 3-3

Trigonometry: Definitions, trigonometric identities, trigonometric equations, trigonometric tables and their construction. Solution of a triangle, quadrilateral, etc. Application to optics. Determinants: rules for manipulating determinants, applications. Vector Algebra: addition, dot and cross products of vectors. Graphing of polynomials, bipolynomials, rational and irrational functions. Construction of graphs from empirical data, applications.

PH 22 Applied Mathematics II 3-3

Rules for differentiation of functions of one variable maxima and minima - Taylor expansion of functions. Differentiation of function of several variables - error analysis. Binomial Theorem, exponential and logarithmic functions applications to radioactive decay and Newton's law of cooling, etc. Analytical geometry: Cartesian coordinates, equation of a line, conic sections, etc.

PH 23 Applied Mathematics III 3-3

Rules for integration by parts, change of variable, partial fractions, trigonometric substitutions, reduction, differentiation under the intesign. Application: Uncertainty relations, lasers, etc. Differential equations: motion through a resistive medium, an electrical circuit, flow of heat in pipes, radio-active decay, etc.

PH 24 Electronic Physics I 4-5

D.C. and A.C. circuits, diodes, power supplies, filters; transistors, parameters, common emitter, common base, common collector configuration; load line analysis.

PH 25 Electronic Physics II 4-5

Multi-stage amplifiers, gain, bandwidth, distortion; oscillators; operational amplifiers, analog computation; gates, flip-flops, counters.

PHYSICAL EDUCATION

Health and Fitness

Requirement

In order to meet the Health and Fitness requirement, students may select one of the following options.

1. One course from Option I.
2. Three courses from Option II.
3. Two courses from Option II and one from Option III.

Option I

Health and Fitness
Exercise and Sport Science
Scientific Foundations of Athletic Training and Conditioning

Option II

Constitutional Morphology
Behavioral Concepts of Sport
Introduction to Kinesiology
Consumer Health
Perceptual Motor Activities
Motor Learning and Motor Performance
Diet, Exercise & Weight Control
Figure Control Through Weight Training
Orientation to Physical Activity
Weight Training for Athletes
First Aid and Safety
Jogging

Option III

Fundamentals of Coaching
Recreational Leadership
Independent Study
Camp Counseling
Physical Education in the Elementary School
Handball
Gymnastics
Volleyball
Badminton
Soccer
Karate
Cross Country Skiing
Skiing
Backpacking
Mountain Leadership
Canoeing
Folk Dance
Aerobics
Rhythmics
Physical Conditioning
Judo
Advanced Basketball
Softball
Advanced Tennis
Slimnastics
Advanced Volleyball
Recreational Sports
Back Packing
Downhill Skiing
Tennis
Basketball

COURSE DESCRIPTIONS

P.E. 10 Health and Fitness 3-3

A basic survey of the effects of diet, exercise and selected environmental agents upon human, mental, and physical health. Topics may include body build and body composition, fitness evaluation and programming, nutritional considerations, psychological correlates of health, chemical alterations, human sexuality, and personal and public health.

P.E. 83 Scientific Principles of Athletic Training & Conditioning 3-3

A course designed to discuss the principles of injury prevention and care, the physiology of training, and nutritional considerations as they apply to athletics.

P.E. 16 Exercise and Sport Science 3-3

Basic exercise physiology is explored as it relates to the health professions. Theoretical topics include orientation to exercise, movement and energy production, neurological aspects of movement, and circulatory, respiratory, and hormonal factors in exercise. Practical topics include: cardiovascular stress testing, nutrition & weight control, physique and body composition, fitness programming, the female in sports, the influence of activity on growth, evaluation of muscular strength, respiratory responses to exercise, and environmental effects such as altitude and temperature.

P.E. 11 Constitutional Morphology Eight Weeks 2-1

An overview of the study of the size and shape of the human body will be presented. Skeletal, physique, lean body, weight and percentage of body fat assessments will be made in relation to physical activity.

P.E. 14 Behavioral Concepts of Sport & Fitness Eight Weeks 2-1

This course is designed to aid the student in understanding the psychological and sociological behaviors common to the realms of sport and fitness. Concepts of competition, cooperation, motivation, social stratification and interaction will be examined. Also, a variety of observational techniques will be used in the analysis of behavioral reactions.

P.E. 13 Introduction to Kinesiology Eight Weeks 2-1

An overview of the study of the mechanics of human motion will be presented. This course is designed to integrate kinesiological principles to the teaching of selected motor activities.

P.E. 15 Consumer Health Eight Weeks 2-1

This course is designed to help the student evaluate health information critically, and select products and services wisely. The past, present, and future of quackery will be explored,especially in the areas of food, cosmetics and chronic disorders. Laws and protection agencies, governmental and private, will be surveyed.

P.E. 51 Perceptual Motor Activities Semester 2-1

A study of the role of physical activity for the mentally retarded, educationally handicapped and the emotionally disturbed will be presented. Topics will include motor integration, foundations of motor learning, research and evaluation, and program development.

P.E. 65 Motor Learning and Motor Performance Eight Weeks 2-1

The neuromuscular integration of human movement in reference to components and factors related to the learning of motor activities will be investigated.

P.E. 67 Diet, Exercise & Weight Control Semester 2-1

The course is designed for those interested in weight loss or weight maintenance through the medium of diet and exercise. After an initial assessment of body composition, endurance fitness and the establishment of dietary goals, each student will work toward the normalization of body weight through actual programs of exercise and diet.

P.E. 22 Figure Control Through Weight Training Eight Weeks 2-1

The theory of weight training and diet in relation to figure control will be discussed. Each student will have physique, body composition, aerobic fitness and muscular strength evaluation before and after a weight training program.

P.E. 18 Jogging: Theory and Practice Semester 4-2

The scientific basis for cardiovascular training programs using jogging as the mode of activity will be presented. Pre-post cardivascular and body composition evaluations and individualized jogging programs will be designed.

P.E. 86 Orientation to Physical Activity Eight Weeks 2-1

An overview of physical activity as it relates to sports and health. Topics such as exercise classification, specificity of exercise, body composition evaluation, muscular strength and endurance, energy cost of exercise, aerobic capacity, cardiovascular evaluation, and relaxation techniques will be surveyed.

P.E. 22 Weight Training for Athletes Eight Weeks 2-1

Theory for the development of muscular strength for specific athletic activities. Anthropometric, body composition, and muscular strength evaluations will be undertaken prior to and following an individually developed weight training program.

P.E. 12 First Aid and Safety Eight Weeks 2-1

A behaviorally oriented course structured for those responsible for the safety and protection of others. Education majors must have completed a First Aid course at the College or elsewhere prior to student teaching.

P.E. 84 Officiating Basketball & Volleyball Semester 3-3

The philosophy and techniques of officiating basketball and volleyball for women. DGWS rules are used for both sports, and an opportunity is presented to take the written and practical national examination to obtain a rating in either or both sports.

P.E. 80 Physical Education in the Elementary School Semester 1-2

A theory and practice course designed to guide the classroom teacher in organizing a comprehensive program of physical education activities.

P.E. 85 Fundamentals of Coaching Semester 3-3

An analysis of the principles and practices of coaching in various sports will be presented for the prospective teacher-coach.

P.E. 88 Recreational Leadership Semester 3-3

The organization and administration of recreational activities will be presented in reference to the development of the principles and practices in both school and community programs. Leadership experiences with school and community programs will also be offered.

Activity courses are taught on a half-semester basis. Each half semester carries 2 clock hours and 1/2 credit.

P.E. 20 Handball
P.E. 21 Physical Conditioning
P.E. 25 Soccer
P.E. 28 Basketball
P.E. 29 Advanced Basketball
P.E. 30 Volleyball
P.E. 31 Softball
P.E. 34 Tennis
P.E. 35 Advanced Tennis
P.E. 37 Badminton
P.E. 40 Karate
P.E. 43 Gymnastics
P.E. 45 Slimnastics
P.E. 46 Rhythmics
P.E. 49 Aerobics
P.E. 53 Folk Dance
P.E. 54 Advanced Volleyball
P.E. 55 Recreational Sports
P.E. 59 Canoeing
P.E. 61 Mountain Leadership
P.E. 62 Backpacking
P.E. 63 Downhill Skiing
P.E. 64 Cross Country Skiing

P. 90 POLITICAL SCIENCE

ADD

PS 25 Legal Internship 6-12

Internships are available in several regional law offices for those persons interested in para-legal work. These internships prepare students for positions in law offices, public administration, and other human service work. Credit is either 6 or 12 sh depending upon arrangements with the Social Sciences Department.

PS 33 Foreign Intelligence and National Security Affairs 3-3

The defense and foreign affairs of the U.S. and U.S.S.R. Nuclear weapons, arms control, civil-military relations, terrorism, policy and decision making are studied. Special attention is given to foreign intelligence and espionage. Current problems in international and national security affairs are discussed.

P.S. 80 Internships in Political Science

Off-campus opportunities, carrying appropriate academic credit, are available in local, state, and federal government offices and with political campaigns. Open to students who have the permission of the department. Credit and hours by special arrangement.

SPECIAL EDUCATION

P. 53

ADD

Under Professional Electives, after "Problems in Languarge Arts,"

Seminar in Special Education 3

P. 92

INSERT

At end of course description for

SE 70 Integrated Professional Program:

Students enrolled in this course will observe the Spring Vacation of the participating school, not the College Spring Vacation.

CURRICULUM REQUIREMENTS PROVISION - ALL MAJORS

Curriculum requirements in effect for the respective degrees at the time the student enters Fitchburg State College are the requirements to be met for that degree. However, the College reserves the right to alter the curriculum requirements where it becomes necessary to meet statutory, educational or professional requisites or to assure quality educational programs.

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